Project-based Course Overview

Welcome!

Welcome to **AWS Elastic Beanstalk: Deploy & Launch a Python(Flask) Web Application**. This is a project-based course that should take approximately 1 hour to finish. Before diving into the project, please take a look at the course objectives and structure:

Course Objectives

In this course, we are going to focus on the following learning objectives:

1. Create a Flask(Python) web application.

2. Deploy Flask(Python) web application to AWS virtual servers.

3. Perform AWS Elastic Beanstalk actions: Server logs, App versioning, Server monitoring.

By the end of this project, you will be using the Flask python framework to create your web application & AWS management console to deploy the web application to the AWS servers. Additionally, you will learn more about reading the server logs, how to switch between different versions of your web application & also, monitoring your AWS servers using Elastic Beanstalk Management Console.

Course Structure

This course is divided into 3 parts:

1. Course Overview: This introductory reading material.

2. **AWS Elastic Beanstalk: Deploy & Launch a Python(Flask) Web Application:** This is the hands-on project that we will work on in Rhyme.

3. Graded Quiz: This is the final assignment that you need to pass in order to finish the course successfully.

Project Structure

The hands-on project on **AWS Elastic Beanstalk: Deploy & Launch a Python(Flask) Web Application** is divided into the following tasks:

Task 1: Create a Flask(Python) web application.

Task 2: Launch an AWS EC2 instance(Virtual Server) using AWS Elastic Beanstalk.

Task 3: Deploy your Flask(Python) web application to AWS virtual servers.

Task 4: Explore the AWS server logs: Error logs & Debug logs.

Task 5: Setting up secure AWS Environment properties & accessing it via Python code.

Task 6: Perform additional AWS Elastic Beanstalk actions: Application versioning, Restart servers, Server performance monitoring & Terminate the server.